NOVEMBER/DECEMBER 2024

23PCS22 — ADVANCED OPERATING SYSTEMS

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Operating System.
2. What is multiprocessor?
3. What are the design issues in Distributed System?
4. Outline of DFS.
5. What is real-time operating System?
6. Compare hard versus soft real-time systems.
7. What is Handheld Operating Systems?
8. What are main components of android architecture?
9. Define paging.
10. Outline of the File systems.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Apply the banker's algorithm for deadlock avoidance.

Or

(b) Identify services provided by an operating system.

12. (a) Categorize the deadlock handling strategies in distributed system.

Or

(b) Discuss the various features of the DFS.

13. (a) Importance of the Soft real-time system.

Or

(b) Classify the Real-time scheduling algorithm.

14. (a) Analyse Symbian OS.

Or

(b) Categories of Android Operating System Features.

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15. (a) Explain the Scheduling algorithms.

Or

(b) Compare and contrast of Linux and Windows operating systems.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Elaborate the Deadlock Prevention.

17. Explain the distributed file system.

18. Discuss the Real-time System Applications.

19. Explain the various Handheld Operating Systems.

20. Explain CPU Scheduling. Elaborate the Round-Robin Scheduling algorithm with example.

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